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PTC/SB/03A (03-03)

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Substitute for Form 1449/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of

17

Application Number	10/669,251
Filing Date	September 25, 2003
First Named Inventor	Leland SHAPIRO
Art Unit	3736
Examiner Name	Not Yet Assigned

Attorney Docket Number 330310.00102

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
KW	1	US- 4,021,472 A	05/1977	Fujii et al.	
KW	2	US- 4,051,842 A	10/1977	Hazel et al.	
KW	3	US- 4,140,122 A	02/1979	Kuhl et al.	
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KW	11	US- 4,711,848 A	12/1987	Insley et al.	
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KW	13	US- 4,732,973 A	03/1988	Barr et al.	
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KW	15	US- 4,788,603 A	11/1988	Fujimura et al.	
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KW	19	US- 4,889,723 A	12/1989	Kim et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
KW	20	WO 94/07525	04/1994			
KW	21	WO 95/28422	10/1995			
KW	22	WO 95/34538	12/1995			
KW	23	WO 96/12021	04/1996			
KW	24	WO 96/14067	05/1996			
	25	WO 97/03679	02/1997			

Examiner Signature

/Kevin Weddington/ (02/15/2006)

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Substitute for form 1449, PTO

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Sheet

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KW	26	US- 4,931,279 A	06/1990	Bawa et al.	
	27	US- 4,963,654 A	10/1990	Katunuma	
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KW	45	WO 97/09346	03/1997			
	46	WO 97/09347	03/1997			
	47	WO 97/10222	03/1997			
	48	WO 97/10231	03/1997			
	49	WO 97/21690	06/1997			
KW	50	WO 97/24339	07/1997			

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Substitute for form 1449 PTO

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First Named Inventor	Leland SHAPIRO
Art Unit	3736
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Xes	51	US- 5,486,470 A	01/1996	Darke et al.	
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	53	US- 5,504,094 A	04/1996	Nakane et al.	
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	57	US- 5,532,215 A	07/1996	Lezdey et al.	
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	62	US- 5,610,140 A	03/1997	Goodfellow et al.	
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/(u)	69	US- 5,641,670 A	06/1997	Treco et al.	

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		Country Code ³ "Number ⁴ "Kind Code ⁵ (If known)				
ll	70	WO 97/31937	09/1997			
	71	WO 97/33996	09/1997			
	72	WO 97/37969	10/1997			
	73	WO 97/45402	12/1997			
	74	WO 97/48706	12/1997			
ll	75	WO 97/49679	12/1997			

Examiner Signature	/Kevin Weddington/ (02/15/2006)	Date Considered
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Substitute for form 1449 PTO				Complete if Known	
				Application Number	10/669,251
				Filing Date	September 25, 2003
				First Named Inventor	Leland SHAPIRO
				Art Unit	3736
				Examiner Name	Not Yet Assigned
Sheet	4	of	17	Attorney Docket Number	330310.00102

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)			
W	76	US- 5,663,416 A	09/1997	Kirschenheuter et al	
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	91	US- 5,834,431 A	11/1998	Stewart et al.	
	92	US- 5,843,900 A	12/1998	Cheronis et al.	
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Q	94	US- 5,861,299 A	01/1999	Archibald et al.	

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W	95	WO 98/06417	02/1998		
	96	WO 98/09206	03/1998		
	97	WO 98/20034	05/1998		
	98	WO 98/21186	05/1998		
	99	WO 98/22098	05/1998		
W	100	WO 98/22619	05/1998		

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WU	101	US- 5,861,380 A	01/1999	Gyorkos et al.	
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	105	US- 5,874,585 A	02/1999	Gyorkos et al.	
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WU	112	WO 98/23565	06/1998		
	113	WO 98/24806	06/1998		
	114	WO 98/46597	10/1998		
	115	WO 98/49190	11/1998		
WU	116	WO 98/50342	11/1998		
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NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
W	122	Aoki H, Akaike T, Abe K, Kuroda M, Arai S, Okamura R, Negi A, Maeda H. Antiviral effect of onyzacystatin, a proteinase inhibitor in rice, against herpes simplex virus type I in vitro and in vivo. Antimicrob Agents Chemother Apr. 1995; 39(4):846-9.			T ²
	123	Auerswald et al., "Recombinant leech-derived tryptase inhibitor: construction, production, protein chemical characterization and inhibition of HIV-1 replication", Biol Chem Hoppe Seyler, 375(10):695-703 (1994).			
	124	Avril LE, Di Martino-Ferrer M, Barin F, Gauthier F., "Interaction between a membrane-associated serine proteinase of U-937 monocytes and peptides from the V3 loop of the human immunodeficiency virus type I (HIV-1) gp120 envelope glycoprotein", FEBS Lett, 317(1-2):167-72 (Feb. 8, 1993).			
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W	131	Dilanni CL, Stevens JT, Bolgar M, O'Boyle DR 2nd, Weinheimer SP, Colonna RJ. Identification of the serine residue at the active site of the herpes simplex virus type 1 protease. J Biol Chem Apr. 29, 1994;269(17):12672-6.			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/669,251
<i>(Use as many sheets as necessary)</i>				Filing Date	September 25, 2003
				First Named Inventor	Leland SHAPIRO
				Art Unit	3736
				Examiner Name	Not Yet Assigned
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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
KW	132	Flaitz CM, Hicks MJ. "Molecular piracy: the viral link to carcinogenesis." Oral Oncol Nov. 1998;34(6):448-53.		
	133	Griffin, William C., "Calculation of HLB Values of Non-Ionic Sufactants", [H. L. B.--The Hydrophilic-Lipophilic Balance], J. Soc. Cos. Met. Chem., vol. 5, p. 249 (1954).		
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KW	141	Lomas DA, Elliott PR, Carrell RW. Commercial plasma alaph-antitrypsin (Prolastin) contains a conformationally inactive, latent component. Eur. Respir J Mar. 1997;10(3):672-5		

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1a	142	Meylan et al., "HIV infectivity is not augmented by treatment with trypsin, Factor Xa or human mast-cell tryptase", AIDS, 6(1):128-30 (1992).	
	143	Miranda et al., "Isolation of the human PC6 gene encoding the putative host protease for HIV-1 gp160 processing in CD4+ T lymphocytes", Proc Natl Acad Sci U S A, 93(15):7695-7700 (1996).	
	144	Molle W. et al. in J Immunol 1997, 159, 3555.	
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	146	Ohnishi et al., "A furin-defective cell line is able to process correctly the gp160 of human immunodeficiency virus type I", J Virol, 68(6):4075-99 (1994).	
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	149	Schwartz, et al., "Antiviral activity of the proteasome on incoming human immunodeficiency virus type I", J Virol, 72(5):3845-50 (1998).	
	150	Sichko ZhV, Koslova OL. Experience in treating herpetic infection with trypsin [Article in Russian]. Vrach Delo Mar. 1991;86-9.	
1m	151	Szeghy G, Kenyeres B. On the therapy of herpes simplex keratitis with heparin and trypsin. [Article in German] Klin Monatsbl Augenheilkd 1968; 153(6):827-30.	

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llw	152	Ciliberto et al., 1985, Cell, 41:531-540.	
	153	Dery O. and Bunnett, N.W. Biochem Soc Trans 1999, 27, 246-254.	
	154	Altieri, D.C. J Leukoc Biol 1995, 58, 120-127.	
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LC	162	Nathan, C. in FASEB J. 1992, 6, 3501.	
	163	Rehman, A. et al. in Br J Pharmacol, 1997, 122, 1702.	
	164	Pryor, W. A. et al., in Chem Biol Interact 1985, 54, 171.	
	165	Van Molle W. et al. in J Immunol 1997, 159, 3555.	
	166	Bratt, J. and Palmblad, J. in J Immunol 1997, 159, 812.	
	167	Ding, A. et al., in J. Immunol. 1990, 145, 940.	
	167	Heck, D. E. et al., in J. Biol. Chem. 1990, 267, 21277.	
	169	McCall, T.B. et al., in Biochem. Biophys. Res. Commun. 1992, 186, 680.	
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K	171	Goureau, O. et al., in Proc. Natl. Acad. Sci. U.S.A. 1993, 90, 4276.	

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LG	172	Schini et al. in Circ Res 1994, 74, 24.	
	173	Meki, A. R. et al. in Toxicon 1998, 36, 18519.	
	174	Popko B. and Baerwald, K. D. in Neurochem Res 1999, 24, 331.	
	175	Smith, M. E. in Neurochem Res 1999, 24, 261.	
	176	Sambrook, Fritsch & Maniatis, Molecular Cloning: A Laboratory Manual, Second Edition 1989, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y.	
	177	Remington's Pharmaceutical Sciences, 1990, p. 1519-1675, Gennaro, A.R., ed., Mack Publishing Company, Easton, PA.	
	178	Langer, R., Nature, 1998, 392, 5.	
	179	Budavari, Susan (Editor), "The Merck Index", An Encyclopedia of Chemicals, Drugs, and Biologicals; Merck & Co., Inc., 11th edition.	
	180	Merrifield, R.B., "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", 1963, J. Am. Chem. Soc., (85):2149.	
LG	181	Animal Cell Culture, R.I. Freshney, ed. 1986, IRL Press, Oxford.	

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<i>lh</i>	182	Scharpe et al., "Protease and their inhibitors: today and tomorrow", 1991, Biochimie, 73(1):121-126.	
	183	Kido et al., "A novel membrane-bound serine esterase in human T4+ lymphocytes immunologically reactive with antibody inhibiting syncytia induced by HIV-1. Purification and characterization", J Biol Chem., 1990, 265(35):21979-85.	
	184	Brinkman et al., "Inhibition of tryptase TL2 from human T4+ lymphocytes and inhibition of HIV-1 replication of H9 cells by recombinant aprotinin and bikunin homologues", 1997, J. Protein Chem., 16(6):651-660.	
	185	Auerswald et al., "K15R M52E) aprotinin is a weak Kunitz-type inhibitor of HIV-1 replication in H9 cells" Biomed Biochim Acta, 1991, 50(4-6):697-700.	
	186	Kamoshita et al., "Calcium requirement and inhibitor spectrum for intracellular HIV type 1 gp160 processing in cultured HeLa cells and CD4+ lymphocytes: similarity to those of viral envelope glycoprotein maturase", J Biochem. Tokyo, 1995, 117(6):1244-53.	
	187	Koito et al., "A neutralizing epitope of human immunodeficiency virus type 1 has homologous amino acid sequence with the active site of inter-alpha-trypsin inhibitor", 1989, Int Immunol, 1(6):613-8.	
	188	McNeely et al., "Secretory leukocyte protease inhibitor: a human saliva protein exhibiting anti-human immunodeficiency virus 1 activity in vitro", 1995, J Clin Invest, 96(1):456-64.	
	189	Hallenberger et al., "Inhibition of furin-mediated cleavage activation of HIV-1 glycoprotein gp160", 1992, Nature, 360(6402):358-61.	
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<i>lh</i>	191	Anderson et al., "Inhibition of HIV-1 gp160-dependent membrane fusion by a furin-directed alpha 1-antitrypsin variant", 1993, J Biol Chem, 268(33):24887-91.	

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lC	192	Decroly, et al., "Identification of the paired basic convertases implicated in HIV gp160 processing based on in vitro assays and expression in CD4(+) cell lines", 1996, J Biol Chem, 271(48):30442-50.		
	193	Moulard, et al., "Kex2p: a model for cellular endoprotease processing human immunodeficiency virus type 1 envelope glycoprotein precursor", Eur J Biochem, 1994, 225(2):565-72.		
	194	Avril, et al., "Identification of the U-937 membrane-associated proteinase interacting with the V3 loop of HIV-1 gp120 as cathepsin G", FEBS Lett, 1994, 345(1):81-6.		
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	196	Bourinbaiar, et al., "Acrosin inhibitor, 4'-acetamidophenyl 4-guanidinobenzoate, an experimental vaginal contraceptive and anti-HIV activity", Contraception, 1995, 51(5):319-22.		
	197	Bristow, et al., "Inhibition of HIV-1 by modification of a host membrane protease", 1995, Int Immunol, 7(2):239-49.		
	198	Bukrinskaia et al., "Inhibition of HIV reproduction in cultured cells using proteolysis inhibitors", 1989, Vopr Virusol, 34(1):53-5.		
	199	Bourinbaiar, et al., "Effect of serine protease inhibitor, N-alpha-tosyl-L-lysyl-chloromethyl ketone (TLCK), on cell-mediated and cell-free HIV-1 spread", Cell Immunol, 1994, 155(1):230-6.		
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a	201	Kennedy et al., "Submandibular salivary proteases: lack of a role in anti-HIV activity", 1998, J Dent Res, 77(7):1515-9.		

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L	202	Premack, B.A. et al., "Chemokine Receptors: Gateways to Inflammation and Infection", 1996, Nature Medicine 2:1174-1178.	
J	203	Zhirnov O.P. et al., "Antiviral activity of proteinase inhibitors in cultured cells infected with alpha-viruses", Mol Gen Mikrobiol Virusol, 1985, (12):30-6.	
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		Application Number	10/669,251
		Filing Date	September 25, 2003
		First Named Inventor	Leland SHAPIRO
		Art Unit	3736
		Examiner Name	Not Yet Assigned
Sheet	16	of	17
		Attorney Docket Number	330310.00102

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
LL	212	Ooka, T., et al., "Protective effects of human urinary trypsin inhibitor against trypsin-induced relaxation in rat aorta", Crit care Med, 1996, 24(11): 1903-1907.		
	213	Novradovsky, A., et al., "Endothelial Nitric Oxide Synthase as a Potential Susceptibility Gene in the Pathogenesis of Emphysema in alpha1-Antitrypsin Deficiency", 1999, Am J Respir Cell Mol Biol, 1;20(3):441-447.		
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